

## 6202.0 - Labour Force, Australia, Jan 2006

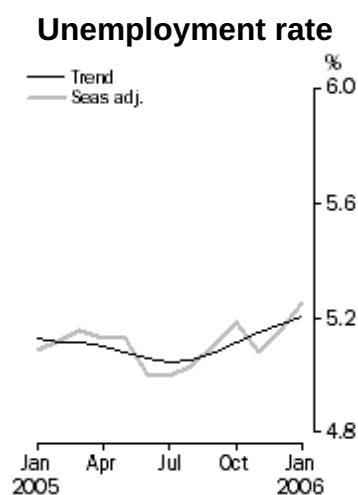
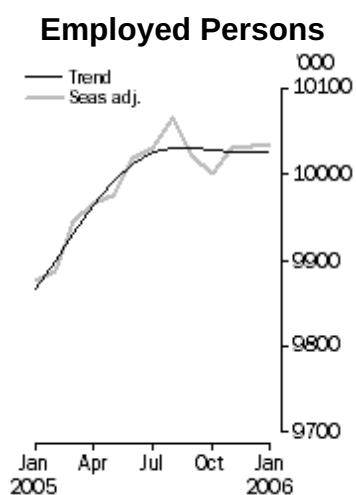
Previous ISSUE Released at 11:30 AM (CANBERRA TIME) 09/02/2006

## Summary

### Main Features

#### JANUARY KEY FIGURES

	Dec 2005	Jan 2006	Dec 05 to Jan 06	Jan 05 to Jan 06
<b>Trend</b>				
Employed persons ('000)	10 027.0	10 027.4	0.4	1.6%
Unemployed persons ('000)	547.8	550.8	3.0	3.3%
Unemployment rate (%)	5.2	5.2	0.0pts	0.1pts
Participation rate (%)	64.4	64.3	0.0pts	0.3pts
<b>Seasonally Adjusted</b>				
Employed persons ('000)	10 032.7	10 034.5	1.8	1.6%
Unemployed persons ('000)	545.9	556.8	10.9	5.1%
Unemployment rate (%)	5.2	5.3	0.1pts	0.2pts
Participation rate (%)	64.4	64.4	0.0pts	0.3pts



#### JANUARY KEY POINTS

#### TREND ESTIMATES (MONTHLY CHANGE)

- EMPLOYMENT increased to 10,027,400
- UNEMPLOYMENT increased to 550,800

- UNEMPLOYMENT RATE remained at 5.2%
- PARTICIPATION RATE decreased to 64.3%

## **SEASONALLY ADJUSTED ESTIMATES (MONTHLY CHANGE)**

### **EMPLOYMENT**

- increased by 1,800 to 10,034,500. Full-time employment increased by 30,500 to 7,177,300 while part-time employment decreased by 28,700 to 2,857,200.

### **UNEMPLOYMENT**

- increased by 10,900 to 556,800. The number of persons looking for full-time work increased by 13,300 to 396,200 while the number of persons looking for part-time work decreased by 2,300 to 160,600.

### **UNEMPLOYMENT RATE**

- increased by 0.1 percentage point to 5.3%. The male unemployment rate increased by 0.1 percentage point to 5.2% and the female unemployment rate increased by 0.1 percentage point to 5.4%.

### **PARTICIPATION RATE**

- remained at 64.4%.

## **NOTES**

### **FORTHCOMING ISSUES**

<b>ISSUE</b>	<b>Release Date</b>
February 2006	9 March 2006
March 2006	6 April 2006
April 2006	11 May 2006
May 2006	8 June 2006
June 2006	13 July 2006
July 2006	10 August 2006

### **ROUNDING**

Estimates of monthly change shown on the front cover have been calculated using unrounded estimates, and may be different from, but are more accurate than, movements obtained from the rounded estimates. The graphs on the front cover also depict unrounded estimates.

## SAMPLING ERRORS

The estimates in this publication are based on a sample survey. Because the entire population is not enumerated, the published estimates and the movements derived from them are subject to sampling variability. Standard errors give a measure of this variability and appear on pages 27 and 28.

The 95% confidence intervals below provide another way of looking at the variability inherent in estimates from sample surveys. The interval bounded by the two limits is the 95% confidence interval. A 95% confidence interval has a 95% chance of including the true value of the estimate.

### Movements in seasonally adjusted series between December 2005 and January 2006

	Monthly change	95% Confidence interval		
Total Employment	1 800	-50 200	to	53 800
Total Unemployment	10 900	-19 100	to	40 900
Unemployment rate	0.1 pts	-0.1 pts	to	0.3 pts
Participation rate	0.0 pts	-0.4 pts	to	0.4 pts

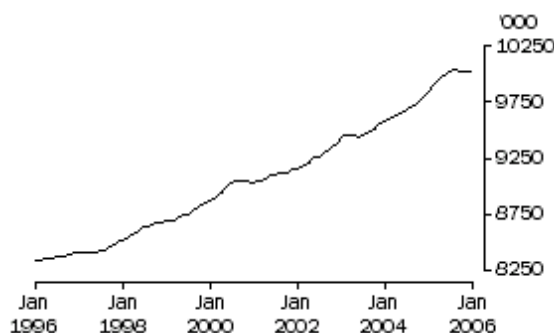
## INQUIRIES

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Rebecca Cash on Canberra (02) 6252 6525.

## PRINCIPAL LABOUR FORCE SERIES TREND ESTIMATES

### EMPLOYED PERSONS

The trend estimate of employed persons rose from 8,342,600 in January 1996 to 9,056,100 in September 2000. The trend then fell slightly to 9,035,000 in January 2001, before rising to stand at 10,031,500 in August 2005. The trend has fallen slightly since then to stand at 10,027,400 in January 2006.



### UNEMPLOYED PERSONS

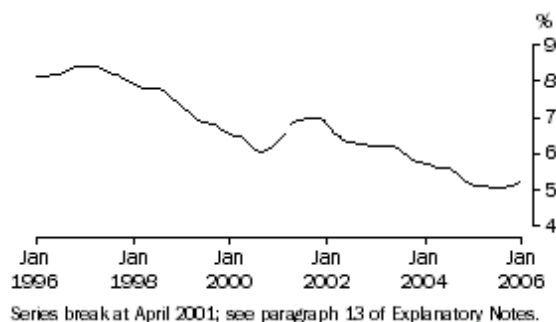
The trend estimate of unemployed persons rose from 738,700 in January 1996 to 771,700 in

February 1997. The trend then generally fell to 583,600 in September 2000, before rising to 685,400 in October 2001. The trend then fell to 533,000 in July 2005, before rising to stand at 550,800 in January 2006.



## UNEMPLOYMENT RATE

The trend unemployment rate rose from 8.1% in January 1996 to 8.4% in February 1997, before falling to 6.1% in September 2000. After rising to 7.0% in October 2001, the trend fell to 5.0% in July 2005. The trend has since risen slightly to stand at 5.2% in January 2006.

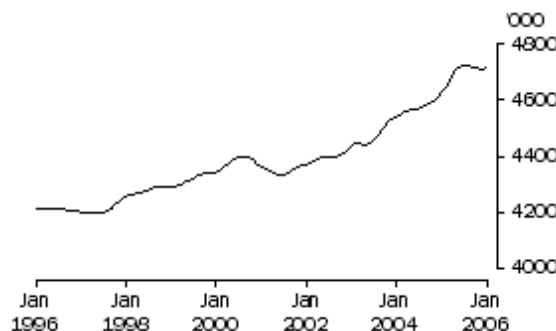


## EMPLOYED PERSONS TREND ESTIMATES

### MALES EMPLOYED FULL TIME

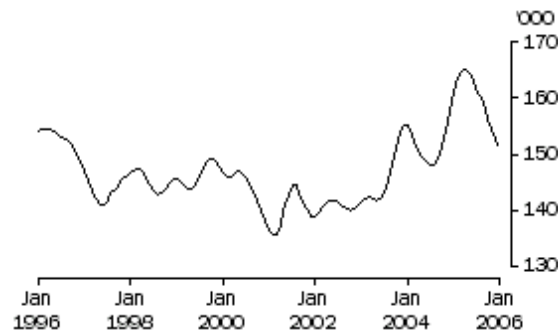
#### TOTAL

The trend estimate of males employed full time fell from 4,211,100 in January 1996 to 4,198,700 in May 1997, before generally rising to 4,400,200 in August 2000. The trend then fell to 4,334,500 in June 2001, before generally rising to stand at 4,712,700 in January 2006.



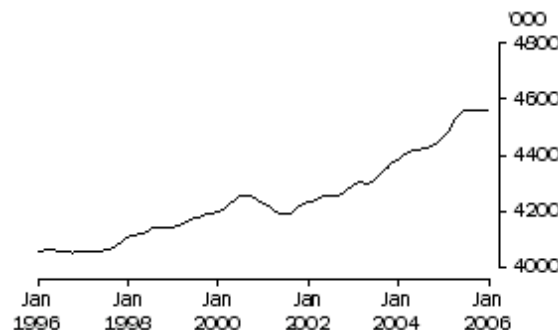
## MALES AGED 15-19 YEARS

The trend estimate of males aged 15 to 19 years employed full time decreased from 154,100 in January 1996 to 141,100 in June 1997. The trend fluctuated for the next three years, then fell to a low of 135,600 in February 2001 before rising to 155,100 in December 2003. After falling to 148,000 in July 2004, the trend rose to 165,100 in April 2005. Since then the trend has fallen to stand at 151,200 in January 2006.



## MALES AGED 20 YEARS AND OVER

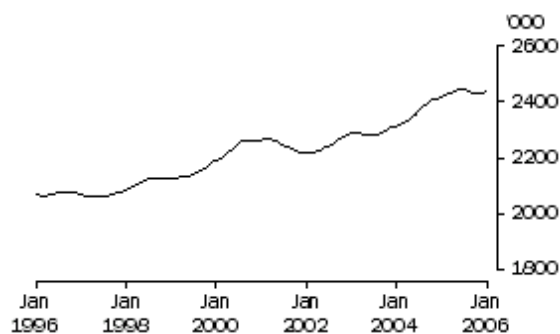
The trend estimate of males aged 20 years and over employed full time rose gradually from 4,057,100 in January 1996 to 4,255,300 in August 2000. After falling to 4,191,200 in July 2001, the trend has generally risen to stand at 4,561,500 in January 2006.



## FEMALES EMPLOYED FULL TIME

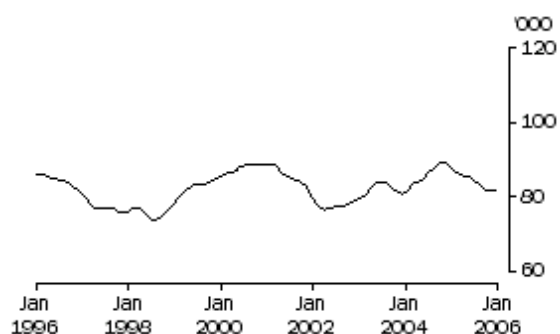
### TOTAL

The trend estimate of females employed full time rose from 2,067,000 in January 1996 to 2,266,900 in March 2001. The trend then decreased to 2,215,600 in January 2002, before generally rising to stand at 2,438,000 in January 2006.



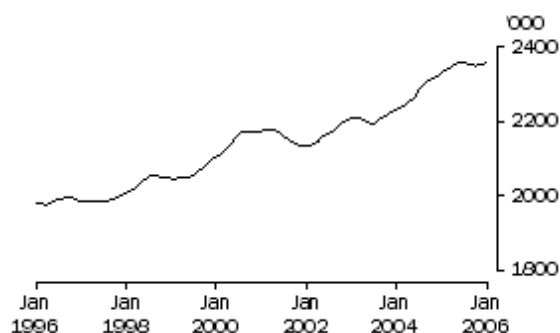
## FEMALES AGED 15-19 YEARS

The trend estimate of females aged 15 to 19 years employed full time generally fell from 86,000 in January 1996, to a low of 74,000 in August 1998. The trend then rose to 89,100 in February 2001, before falling to 76,700 in April 2002. The trend then generally increased to 89,300 in November 2004, before falling to stand at 81,800 in January 2006.



## FEMALES AGED 20 YEARS AND OVER

The trend estimate of females aged 20 years and over employed full time generally rose from 1,981,000 in January 1996 to 2,178,100 in March 2001. After falling to 2,135,200 in December 2001, the trend has generally risen to stand at 2,356,200 in January 2006.



## About this Release

Summary results of the monthly Labour Force Survey containing estimates of employed and unemployed persons classified by sex, full-time/part-time status, states and territories and some age groups; and persons not in the labour force.

6202.0 was published as Labour Force, Australia, Preliminary until March 2003. As the publication had provided final summary data for a number of years to that point, the misleading qualification preliminary was removed from the April 2003 issue onwards.

# Explanatory Notes

## Explanatory Notes

### EXPLANATORY NOTES

#### INTRODUCTION

**1** This publication contains estimates of the civilian labour force derived from the Labour Force Survey component of the Monthly Population Survey. The full time series for estimates from this publication are also available electronically - see **Labour Force, Australia, Spreadsheets** (cat. no. 6202.0.55.001). More detailed estimates are released one week after this publication in various electronic formats - see **Labour Force, Australia, Detailed - Electronic Delivery** (cat. no. 6291.0.55.001).

#### CONCEPTS, SOURCES AND METHODS

**2** The conceptual framework used in Australia's Labour Force Survey aligns closely with the standards and guidelines set out in Resolutions of International Conferences of Labour Statisticians. Descriptions of the underlying concepts and structure of Australia's labour force statistics, and the sources and methods used in compiling the estimates, are presented in **Labour Statistics: Concepts, Sources and Methods** (cat. no. 6102.0.55.001) which is available on the ABS web site <<https://www.abs.gov.au>> (Methods, Classifications, Concepts & Standards).

#### LABOUR FORCE SURVEY

**3** The Labour Force Survey is based on a multi-stage area sample of private dwellings (currently about 30,000 houses, flats, etc.) and a list sample of non-private dwellings (hotels, motels, etc.), and covers about 0.45% of the population of Australia. Information is obtained from the occupants of selected dwellings by specially trained interviewers.

**4** The information is collected using computer-assisted interviewing (CAI), whereby responses are recorded directly onto an electronic questionnaire on a notebook computer. The CAI method was progressively implemented from October 2003 to August 2004, replacing the 'pen and paper' method previously used.

**5** Households selected for the Labour Force Survey are interviewed each month for eight months, with one-eighth of the sample being replaced each month. The first interview is

conducted face-to-face. Subsequent interviews are conducted by telephone (if acceptable to the respondent).

**6** The interviews are generally conducted during the two weeks beginning on the Monday between the 6th and 12th of each month. The information obtained relates to the week before the interview (i.e. the reference week). Each year, to deal with operational difficulties involved with collecting and processing the Labour Force Survey around the Christmas and New Year holiday period, interviews for December start four weeks after November interviews start, and January interviews start five weeks after December interviews start. As a result, January interviewing may commence as early as the 8th or as late as the 14th, depending on the year. Occasionally, circumstances that present significant operational difficulties for survey collection can result in a change to the normal pattern for the start of interviewing.

**7** Estimates from the Labour Force Survey are published first in this publication 31 days after the commencement of interviews for that month, with the exception of estimates for each December which are published 38 days after the commencement of interviews.

## **SCOPE OF SURVEY**

**8** The Labour Force Survey includes all persons aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia.

## **COVERAGE**

**9** In the Labour Force Survey, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. The coverage rules are necessarily a balance between theoretical and operational considerations. Nevertheless, the chance of a person being enumerated at two separate dwellings in the survey is considered to be negligible.

## **POPULATION BENCHMARKS**

**10** Labour Force Survey estimates are calculated in such a way as to add up to independent estimates of the civilian population aged 15 years and over (population benchmarks). From February 2004, labour force estimates have been compiled using benchmarks based on the results of the 2001 Census of Population and Housing. Revisions were made to historical estimates from January 1999 to January 2004.

## **COMPARABILITY OF SERIES**

**11** From April 1986, the definition of employed persons was changed to include persons who

worked without pay between 1 and 14 hours per week in a family business or on a farm (i.e. contributing family workers). For further information, see paragraphs 36 and 37 of the Explanatory Notes to the February 1987 issue of **Labour Force, Australia** (cat. no. 6203.0).

**12** The ABS introduced telephone interviewing into the Labour Force Survey in August 1996. Implementation was phased in for each new sample group from August 1996 to February 1997. During the period of implementation, the new method produced different estimates than would have been obtained under the old methodology. The effect dissipated over the final months of implementation and was no longer discernible from February 1997. The estimates for February 1997 and onwards are directly comparable to estimates for periods prior to August 1996. For further details, see the feature article in the June 1997 issue of **Labour Force, Australia** (cat. no. 6203.0).

**13** From April 2001 the Labour Force Survey has been conducted using a redesigned questionnaire containing additional data items and some minor definitional changes. The definition of unemployed persons was changed to include all persons who were waiting to start work and were available to start in the reference week. This change was introduced in February 2004, when historical unit record data were revised from April 2001 to January 2004. This revision created a small trend break at April 2001 in unemployed persons and unemployment rate series. For further details, see **Information Paper: Forthcoming Changes to Labour Force Statistics** (cat. no. 6292.0).

**14** Core labour force series were revised in April 2001 for the period April 1986 to March 2001 for the remaining definitional changes introduced with the redesigned questionnaire, to reduce the impact of the changes on labour force series. For further details, see **Information Paper: Implementing the Redesigned Labour Force Survey Questionnaire** (cat. no. 6295.0) and **Information Paper: Questionnaires Used in the Labour Force Survey** (cat. no. 6232.0).

## **SURVEY SAMPLE REDESIGN**

**15** The Labour Force Survey sample was last reselected using information collected in the 2001 Census of Population and Housing.

**16** The bulk of the new sample was phased in over the period November 2002 to June 2003, with one-eighth of this portion of the sample being introduced every month. The remainder of the sample (about 18% of the total), which covers less settled areas of Australia and non-private dwellings was rotated in full for New South Wales, Victoria, Tasmania, Northern Territory and Australian Capital Territory in November 2002, and for Queensland, South Australia and Western Australia in December 2002. Such a pattern of implementation means that any changes to labour force estimates due to differences between the two samples, or any other influences, were spread over the eight months.

**17** For further details, see **Information Paper: Labour Force Survey Sample Design** (cat. no. 6269.0) and **Technical Report: New Labour Force Survey sample selections: analysis of the effect on estimates** in the October 2003 issue of **Australian Labour Market Statistics** (cat. no. 6105.0).

## RELIABILITY OF ESTIMATES

**18** Two types of error are possible in an estimate based on a sample survey: sampling error and non-sampling error.

**19** Sampling error occurs because a sample, rather than the entire population, is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors. Standard errors of estimates for the latest month and of estimates of movements since the previous month are shown on pages 27 and 28. Standard errors of other estimates and other movements may be determined by using information in the paper **Labour Force Survey Standard Errors** (cat. no. 6298.0) which is available free on this site.

**20** Non-sampling error arises from inaccuracies in collecting, recording and processing the data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of co-operation from individuals in selected dwellings, with the average response rate over the last year being 96%. See Glossary for definition of response rate.

## SEASONAL ADJUSTMENT AND TREND ESTIMATION

**21** Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular or non-seasonal influences which may be present in any particular month. This means that month-to-month movements of the seasonally adjusted estimates may not be reliable indicators of trend behaviour.

**22** The Labour Force Survey uses the concurrent seasonal adjustment method to derive seasonal factors. Concurrent seasonal adjustment uses data up to the current month to estimate seasonal factors for the current and all previous months. This process can result in revisions each month to estimates for earlier periods. However, in most instances, the only noticeable revisions will be to the seasonally adjusted estimates for the previous month and one year prior to the current month.

**23** Seasonal adjustment is able to remove the effect of events which occur at the same time in the survey every year. However, there are some events, like holidays, which are not always at the same time in the survey cycle or which are not at the same time across Australia. The effects of these types of events on LFS estimates cannot in all cases be removed, because the pattern of their effects cannot be determined. However, two events which are adjusted for in the seasonally adjusted series are the January interview start date and the timing of Easter.

**24** For more information on concurrent seasonal adjustment and survey proximity to holiday periods, see **Information Paper: Forthcoming Changes to Labour Force Statistics** (cat. no. 6292.0).

**25** While seasonal factors for the complete time series are estimated each month, they will continue to be reviewed annually at a more detailed level to take into account each additional year's original data. This annual review will not normally result in significant changes to published estimates. The review will be conducted in February each year with the results released in the February issue of this publication.

**26** The smoothing of seasonally adjusted series to produce 'trend' series reduces the impact of the irregular component of the seasonally adjusted series. These trend estimates are derived by applying a 13-term Henderson-weighted moving average to all months except the last six. The last six monthly trend estimates are obtained by applying surrogates of the Henderson average to the seasonally adjusted series. Trend estimates are used to analyse the underlying behaviour of a series over time.

**27** While this smoothing technique enables estimates to be produced for the latest month, it does result in revisions in addition to those caused by the revision of seasonally adjusted estimates. Generally, revisions due to the use of surrogates of the Henderson average become smaller, and after three months have a negligible impact on the series.

**28** Trend estimates are published for the Northern Territory in table 10 and for the Australian Capital Territory in table 11. Unadjusted series for the two territories have shown, historically, a high degree of variability, which can lead to considerable revisions to the seasonally adjusted estimates each month when seasonal factors are estimated. For this reason, seasonally adjusted estimates are not currently published for the two Territories. In addition, caution should be exercised in the interpretation of trend estimates for the two territories, particularly for the three most recent months, where revisions may be relatively large.

**29** For further information, see **A Guide to Interpreting Time Series - Monitoring Trends** (cat. no. 1349.0) or contact the Assistant Director, Time Series Analysis on (02) 6252 6345.

## **RELATED PUBLICATIONS**

**30** Users may also wish to refer to **Australian Labour Market Statistics** (cat. no. 6105.0). This publication contains additional tables and a detailed list of related publications. For further information about this publication, please contact the Assistant Director, Labour Market Statistics on (02) 6252 7636.

**31** ABS Information about the labour market can be found on the Labour theme page on the ABS web site <<http://www.abs.gov.au>>(Themes), or from ABS Bookshops.

**32** Current publications and other products released by the ABS are listed in the **Catalogue of Publications and Products** (cat. no. 1101.0). The Catalogue is available from any ABS office or the ABS web site <<https://www.abs.gov.au>> (Statistics). The ABS also issues a daily Release Advice on the web site (Future Releases) which details products to be released in

the week ahead.

## **DATA AVAILABLE ON REQUEST**

**33** As well as the statistics included in this and related publications, the ABS may have other relevant data available. Inquiries should be made to Rebecca Cash on (02) 6252 6525 or to any ABS office.

## **EFFECTS OF ROUNDING**

**34** Estimates have been rounded and discrepancies may occur between sums of the component items and totals.

**35** Estimates of movement shown in this publication are obtained by taking the difference of unrounded estimates. The movement estimate is then rounded to one decimal place. Therefore where a discrepancy occurs between the reported movement and the difference of the rounded estimates, the reported movement will be more accurate.

## **SYMBOLS AND OTHER USAGES**

### **36 SYMBOLS AND OTHER USAGES**

pts percentage points

# **Glossary**

## **GLOSSARY**

### **Actively looking for work**

Includes writing, telephoning or applying in person to an employer for work; answering an advertisement for a job; checking factory noticeboards or the touchscreens at the Centrelink offices; being registered with Centrelink as a jobseeker; checking or registering with any other employment agency; advertising or tendering for work; and contacting friends or relatives.

### **Attending full-time education**

Persons aged 15-24 years enrolled at secondary or high school or enrolled as a full time student at a Technical and Further Education (TAFE) college, university, or other educational institution in the reference week.

## **Attending school**

Persons aged 15-19 years enrolled at secondary or high school in the reference week.

## **Attending tertiary educational institution full time**

Persons aged 15-24 years enrolled full time at a TAFE college, university, or other educational institution in the reference week, except those persons aged 15-19 years who were still attending school.

## **Civilian population aged 15 years and over**

All usual residents of Australia aged 15 years and over except members of the permanent defence forces, certain diplomatic personnel of overseas governments customarily excluded from census and estimated population counts, overseas residents in Australia, and members of non-Australian defence forces (and their dependants) stationed in Australia.

## **Employed**

All persons aged 15 years and over who, during the reference week:

- worked for one hour or more for pay, profit, commission or payment in kind in a job or business, or on a farm (comprising employees, employers and own account workers); or
- worked for one hour or more without pay in a family business or on a farm (i.e. contributing family workers); or
- were employees who had a job but were not at work and were:
  - away from work for less than four weeks up to the end of the reference week; or
  - away from work for more than four weeks up to the end of the reference week and received pay for some or all of the four week period to the end of the reference week; or
  - away from work as a standard work or shift arrangement; or
  - on strike or locked out; or
  - on workers' compensation and expected to return to their job; or
- were employers or own account workers, who had a job, business or farm, but were not at work.

## **Employment to population ratio**

For any group, the number of employed persons expressed as a percentage of the civilian population in the same group.

## **Full-time workers**

Employed persons who usually worked 35 hours or more a week (in all jobs) and those who, although usually working less than 35 hours a week, worked 35 hours or more during the reference week.

### **Labour force**

For any group, persons who were employed or unemployed, as defined.

### **Labour force status**

A classification of the civilian population aged 15 years and over into employed, unemployed or not in the labour force, as defined. The definitions conform closely to the international standard definitions adopted by the International Conferences of Labour Statisticians.

### **Not in labour force**

Persons who were not in the categories employed or unemployed as defined.

### **Participation rate**

For any group, the labour force expressed as a percentage of the civilian population aged 15 years and over in the same group.

### **Part-time workers**

Employed persons who usually worked less than 35 hours a week (in all jobs) and either did so during the reference week, or were not at work in the reference week.

### **Response rate**

The number of fully responding dwellings expressed as a percentage of the total number of dwellings excluding sample loss. Examples of sample loss include: dwellings where all persons are out of scope and/or coverage; vacant dwellings; dwellings under construction; dwellings converted to non-dwellings; derelict dwellings; and demolished dwellings.

### **Seasonally adjusted series**

A time series of estimates with the estimated effects of normal seasonal variation removed. See Explanatory Notes 21 to 25 for more detail.

### **Trend series**

A smoothed seasonally adjusted series of estimates. See Explanatory Notes 26 to 28 for more detail.

## **Unemployed**

Persons aged 15 years and over who were not employed during the reference week, and:

- had actively looked for full-time or part-time work at any time in the four weeks up to the end of the reference week and were available for work in the reference week; or
- were waiting to start a new job within four weeks from the end of the reference week and could have started in the reference week if the job had been available then.

### **Unemployed looking for full-time work**

Unemployed persons who:

- actively looked for full-time work; or
- were waiting to start a new full-time job.

### **Unemployed looking for part-time work**

Unemployed persons who:

- actively looked for part-time work only; or
- were waiting to start a new part-time job.

## **Unemployment rate**

For any group, the number of unemployed persons expressed as a percentage of the labour force in the same group.

## **Unemployment to population ratio**

For any group, the number of unemployed persons expressed as a percentage of the civilian population in the same group.

# **What If**

## **WHAT IF...? REVISIONS TO TREND ESTIMATES**

# EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES ON TREND ESTIMATES

## TREND REVISIONS

Each time new seasonally adjusted estimates become available, trend estimates are revised. This revision is a combined result of the concurrent seasonal adjustment process and the application of surrogates of the Henderson average to the seasonally adjusted series (see paragraphs 21 to 29 of the Explanatory Notes).

The examples in the tables below show two illustrative scenarios and the consequent revisions to previous trend estimates of employment and the unemployment rate. The revisions in the scenarios below are only due to the use of surrogates of the Henderson average, as the impact of revision of the seasonally adjusted estimates can not be estimated in advance.

**1** The February seasonally adjusted estimate is **higher** than the January estimate by:

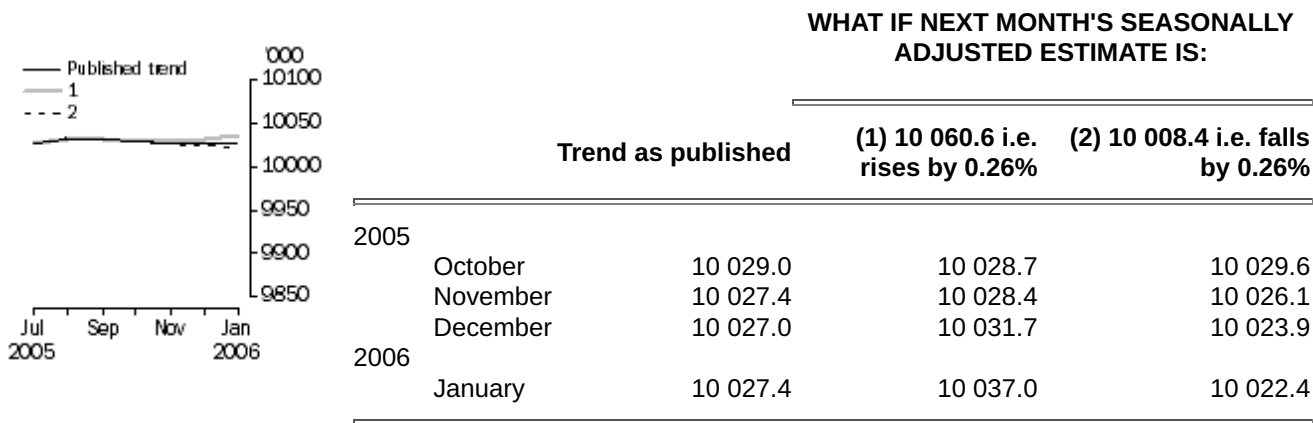
- 0.26% for employment
- 1.80% for the unemployment rate

**2** The February seasonally adjusted estimate is **lower** than the January estimate by:

- 0.26% for employment
- 1.80% for the unemployment rate

The percentage changes of 0.26% and 1.80% were chosen because they represent the average absolute monthly percentage changes in employment and the unemployment rate respectively.

## Employment



## Unemployment Rate



#### WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

		Trend as published			(1) 5.4 i.e rises by 1.80%	(2) 5.2 i.e falls by 1.80%
2005						
	October	5.1			5.1	5.1
	November	5.1			5.2	5.1
	December	5.2			5.2	5.2
2006						
	January	5.2			5.2	5.2

## Standard Errors (Technical Note)

### STANDARD ERRORS

The estimates in this publication are based on information gained from the occupants of a sample survey of dwellings. Because the entire population is not surveyed, the published estimates are subject to sampling error. The most common way of quantifying such sampling error is to calculate the standard error for the published estimate or statistic. For more information, see paragraph 19 of the Explanatory Notes.

### LEVEL ESTIMATES

To illustrate, let us say the published level estimate for employed persons aged 15-19 years is 700,000 and the associated standard error is 9,800. The standard error is then used to interpret the level estimate of 700,000. For instance, the standard error of 9,800 indicates that:

- There are approximately two chances in three that the real value falls within the range 690,200 to 709,800 (700,000 + or - 9,800)
- There are approximately nineteen chances in twenty that the real value falls within the range 680,400 to 719,600 (700,000 + or - 19,600).

The real value in this case is the result we would obtain if we could enumerate the total population.

The following table shows the standard errors for this month's level estimates.

AUSTRALIA													
NSW Vic. Qld SA WA Tas. NT ACT Males Females Persons													
Aged 15 years and over													
Employed													
	Full time	'000	21.6	17.0	14.3	6.5	8.7	3.0	3.9	2.1	26.6	18.2	32.4
	Part time	'000	12.7	10.6	9.3	4.3	5.8	2.1	1.2	1.3	9.4	15.9	19.3
	Total	'000	24.7	19.9	15.4	7.5	9.5	3.6	4.7	2.3	28.6	25.7	36.6
Unemployed													
	Looking for f/t work	'000	8.6	6.3	5.2	2.4	2.7	1.3	1.2	0.7	9.2	7.5	12.1

			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Labour force	Looking for p/t work	'000	4.7	3.8	3.2	1.4	1.8	0.6	0.7	0.5	4.6	5.3
	Total	'000	10.1	7.5	6.1	2.7	3.2	1.4	1.5	0.8	10.4	9.3
	Not in labour force	'000	25.4	20.4	15.6	7.7	9.6	3.7	5.1	2.3	29.5	26.6
	Unemployment rate	'000	23.0	17.9	13.4	6.6	8.9	3.3	4.6	2.0	24.2	29.4
Participation rate	Looking for f/t work	pts	0.3	0.3	0.3	0.4	0.3	0.8	1.4	0.5	0.2	0.3
	Looking for p/t work	pts	0.5	0.5	0.6	0.6	0.6	0.7	3.5	1.0	0.5	0.3
	Total	pts	0.3	0.3	0.3	0.3	0.3	0.6	1.4	0.5	0.2	0.2
	Aged 15-19 years	pts	0.5	0.5	0.5	0.6	0.6	0.9	3.4	0.9	0.4	0.3
Employed	Full time	'000	3.4	2.6	2.5	1.1	1.6	0.5	0.4	0.4	4.6	3.7
	Part time	'000	4.3	3.6	3.1	1.6	1.9	0.7	0.5	0.5	4.9	5.7
	Total	'000	5.4	4.4	4.1	1.9	2.7	0.9	0.6	0.6	6.4	6.6
	Unemployed											
Labour force	Looking for f/t work	'000	3.5	2.1	2.5	1.0	1.1	0.5	0.3	0.3	3.8	3.1
	Looking for p/t work	'000	3.2	2.4	2.0	1.0	1.1	0.4	0.3	0.3	3.3	3.2
	Total	'000	4.9	3.3	3.2	1.4	1.6	0.7	0.5	0.4	5.1	4.5
	Not in labour force	'000	6.2	4.9	4.7	2.1	3.0	1.0	0.6	0.7	7.1	7.2
Unemployment rate	Looking for f/t work	'000	6.8	5.3	4.0	1.9	2.4	0.8	1.1	0.7	7.0	6.5
	Looking for p/t work	'000	6.8	5.3	4.0	1.9	2.4	0.8	1.1	0.7	7.0	6.5
	Total	'000	6.8	5.3	4.0	1.9	2.4	0.8	1.1	0.7	7.0	6.5
	Unemployment rate	'000	6.8	5.3	4.0	1.9	2.4	0.8	1.1	0.7	7.0	6.5
Participation rate	Looking for f/t work	pts	3.1	3.0	2.8	3.9	2.3	4.9	8.8	6.4	1.7	2.2
	Looking for p/t work	pts	1.9	1.7	1.8	2.1	1.8	3.2	7.8	3.2	1.4	1.0
	Total	pts	1.7	1.6	1.6	2.0	1.5	2.9	6.3	2.9	1.1	1.0
	Unemployment to population ratio - looking for f/t work	pts	1.4	1.4	1.7	2.1	2.0	2.8	4.4	2.9	1.0	1.0
Unemployment to population ratio - looking for f/t work	Looking for f/t work	pts	0.8	0.6	0.9	0.9	0.7	1.5	2.0	1.2	0.5	0.4
	Looking for p/t work	pts	0.8	0.6	0.9	0.9	0.7	1.5	2.0	1.2	0.5	0.4
	Total	pts	0.8	0.6	0.9	0.9	0.7	1.5	2.0	1.2	0.5	0.4
	Unemployment to population ratio - looking for f/t work	pts	0.8	0.6	0.9	0.9	0.7	1.5	2.0	1.2	0.5	0.4

## MOVEMENT ESTIMATES

The following example illustrates how to use the standard error to interpret a movement estimate. Let us say that one month the published level estimate for females employed part time in Australia is 1,890,000; the next month the published level estimate is 1,900,000 and the associated standard error for the movement estimate is 10,600. The standard error is then used to interpret the published movement estimate of 10,000. For instance, the standard error of 10,600 indicates that:

- There are approximately two chances in three that the real movement between the two months falls within the range -600 to 20,600 (10,000 + or - 10,600)
- There are approximately nineteen chances in twenty that the real movement falls within the range -11,200 to 31,200 (10,000 + or - 21,200).

The following table shows the standard errors for this month's movement estimates.

											AUSTRALIA							
											Males	Females	Persons					
											NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
<hr/>																		
Aged 15 years and over																		
Employed																		
	Full time	'000	13.8	10.6	9.0	4.0	5.4	1.7	1.5	1.5	16.9	12.0	21.4					
	Part time	'000	8.2	6.6	5.4	2.5	3.3	1.2	0.8	0.9	6.9	10.9	12.9					
	Total	'000	16.5	12.8	11.6	5.5	7.2	2.4	1.8	1.8	18.5	16.5	26.0					
Unemployed																		
	Looking for f/t work	'000	8.4	6.2	5.7	2.4	2.8	1.2	0.9	0.8	9.6	7.8	12.7					
	Looking for p/t work	'000	4.7	3.9	3.4	1.4	1.9	0.6	0.6	0.5	4.8	5.6	7.4					
	Total	'000	9.8	7.5	6.8	2.7	3.4	1.3	1.1	0.9	10.9	9.7	15.0					
Labour force		'000	17.0	13.3	12.1	5.8	7.5	2.5	1.9	1.8	19.0	17.0	26.8					
Not in labour force		'000	16.0	13.0	10.6	5.1	6.1	2.1	1.7	1.8	14.4	18.8	25.3					
Unemployment rate																		

	Looking for f/t work	pts	0.3	0.3	0.3	0.4	0.3	0.8	1.4	0.5	0.2	0.3	0.2
	Looking for p/t work	pts	0.5	0.5	0.6	0.6	0.6	0.8	3.6	1.0	0.6	0.3	0.2
	Total	pts	0.3	0.3	0.3	0.4	0.3	0.6	1.4	0.5	0.2	0.2	0.1
Participation rate		pts	0.3	0.3	0.4	0.5	0.5	0.6	1.3	0.7	0.2	0.2	0.2
Aged 15-19 years													
Employed													
	Full time	'000	2.7	2.0	2.0	0.9	1.3	0.4	0.3	0.3	3.6	3.0	4.3
	Part time	'000	3.5	2.8	2.5	1.2	1.6	0.5	0.4	0.4	3.9	4.4	5.5
	Total	'000	4.2	3.3	3.1	1.4	1.9	0.6	0.5	0.5	4.9	5.0	6.7
Unemployed													
	Looking for f/t work	'000	3.5	2.3	2.6	1.0	1.3	0.5	0.2	0.3	3.9	3.2	5.1
	Looking for p/t work	'000	3.2	2.6	2.3	1.0	1.2	0.4	0.3	0.4	3.5	3.7	5.1
	Total	'000	4.9	3.6	3.4	1.4	1.8	0.7	0.4	0.5	5.3	4.8	7.2
Labour force		'000	4.6	3.6	3.3	1.5	2.1	0.7	0.5	0.5	5.3	5.3	7.3
Not in labour force		'000	4.6	3.5	2.8	1.3	1.6	0.6	0.7	0.5	5.1	4.9	6.7
Unemployment rate													
	Looking for f/t work	pts	3.2	3.4	2.9	4.0	2.6	5.8	8.5	6.4	1.8	2.4	1.4
	Looking for p/t work	pts	2.0	1.9	1.9	2.3	1.9	3.3	8.1	3.4	1.5	1.1	0.9
	Total	pts	1.8	1.7	1.7	2.1	1.6	3.1	6.3	3.0	1.2	1.1	0.8
Participation rate		pts	1.0	1.0	1.2	1.4	1.4	2.0	3.5	2.3	0.7	0.8	0.5
Unemployment to population ratio - looking for f/t work		pts	0.8	0.7	0.9	0.9	0.9	1.5	1.6	1.2	0.6	0.5	0.4

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